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PTO/SB/08A (10-01)
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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of

Complete If Known	
Application Number	10/677,577
Filing Date	October 2, 2003
First Named Inventor	Jonathan M. Rich
Art Unit	
Examiner Name	
Attorney Docket Number	SEH 027 P2

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number - Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
SD		US- 2,690,248	09-28-1954	McDowall	
		US- 2,850,118	09-02-1958	Byers	
		US- 3,042,168	07-03-1962	Binder	
		US- 3,094,194	06-18-1963	Kershner	
		US- 3,198,295	08-03-1965	Fangman et al.	
		US- 3,250,349	05-10-1966	Bymes et al.	
		US- 3,412,836	11-26-1968	Wilmer	
		US- 3,491,865	01-27-1970	Stockton	
		US- 3,534,842	10-20-1970	Davison, Jr.	
		US- 3,871,934	03-18-1975	Marin	
		US- 3,885,659	05-27-1975	Smith	
		US- 3,927,241	12-16-1975	Augustin	
		US- 3,937,303	02-10-1976	Allen et al.	
		US- 4,027,758	06-07-1977	Gustavsson et al.	
		US- 4,139,085	02-13-1979	Kanbe et al.	
		US- 4,260,047	04-07-1981	Nels	
		US- 4,267,912	05-19-1981	Bauer et al.	
		US- 4,291,794	09-29-1981	Bauer	
		US- 4,396,100	08-02-1983	Eltze	
SD		US- 4,449,621	05-22-1984	F'Geppert	

FOREIGN PATENT DOCUMENTS

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Examiner Signature		Date Considered	3-30-05

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Sheet 2 of

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JD		US- 4,674,616	06-23-1987	Mannino, Jr.	
		US- 4,726,455	02-23-1988	East	
		US- 4,770,283	09-13-1988	Putz et al.	
		US- 4,878,282	11-07-1989	Bauer	
		US- 4,913,267	04-03-1990	Campbell et al.	
		US- 4,917,743	04-17-1990	Gramberger et al.	
		US- 4,995,500	02-26-1991	Payvar	
		US- 5,038,628	08-13-1991	Kayama	
		US- 5,076,882	12-31-1991	Oyanagi et al.	
		US- 5,094,331	03-10-1992	Fujimoto et al.	
		US- 5,101,953	04-07-1992	Payvar	
		US- 5,134,005	07-28-1992	Wada et al.	
		US- 5,143,192	09-01-1992	Vojacek et al.	
		US- 5,176,236	01-05-1993	Ghidorzi et al.	
		US- 5,207,305	05-04-1993	Iverson	
		US- 5,332,075	07-26-1994	Quigley et al.	
		US- 5,335,765	08-09-1994	Takakura et al.	
		US- 5,439,087	08-08-1995	Umezawa	
JD		US- 5,454,454	10-03-1995	Easton et al.	
		US- 5,460,255	10-24-1995	Quigley	

FOREIGN PATENT DOCUMENTS

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Sheet 3 of

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Attorney Docket Number	SEH 027 P2

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JD		US- 5,495,927	03-05-1996	Samie et al.	
		US- 5,551,549	09-03-1996	Cooke et al.	
		US- 5,566,802	10-22-1996	Kirkwood	
		US- 5,615,758	04-01-1997	Nels	
		US- 5,660,259	08-26-1997	Peng et al.	
		US- 5,669,474	09-23-97	Dehrmann et al.	
		US- 5,671,835	09-30-1997	Tanaka et al.	
		US- 5,682,971	11-04-1997	Takakura et al.	
		US- 5,776,288	07-07-1998	Stefanutti et al.	
		US- 5,799,763	09-01-1998	Dehrmann	
		US- 5,819,888	10-13-1998	Tamura et al.	
		US- 5,842,551	12-01-1998	Tanaka et al.	
		US- 5,858,511	1-12-1999	Lisowsky	
		US- 5,878,860	03-09-1999	Pavangat et al.	
		US- 5,897,797	04-27-1999	Quigley	
		US- 5,921,366	07-13-1999	Walth et al.	
		US- 5,934,435	08-10-1999	Bauer	
		US- 5,954,172	09-21-1999	Mori	
JD		US- 5,975,260	11-02-1999	Fischer et al.	
		US- 5,998,311	12-07-1999	Nels	

FOREIGN PATENT DOCUMENTS

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Sheet 4 of

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First Named Inventor	Jonathan M. Rich
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Attorney Docket Number	SEH 027 P2

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EC		US- 6,019,205	02-01-2000	Willwerth et al.	
		US-6,035,991	03-14-2000	Willwerth et al.	
		US- 6,036,903	03-14-2000	Kierbel et al.	
		US- 6,047,806	04-11-2000	Sasse	
		US-6,062,367	05-16-2000	Hirayanagi et al.	
		US- 6,065,579	05-23-2000	Nels	
		US-6,135,256	10-24-2000	Han et al.	
		US-6,145,645	11-14-2000	Kroll et al.	
		US-6,170,629	01-09-2001	Suzuki et al.	
		US- 6,203,649	03-20-2001	Kremsmair et al.	
		US- 6,213,273	04-10-2001	Menard et al.	
		US- 6,247,568	06-19-2001	Takashima et al.	
		US-6,273,228	08-14-2001	Otto et al.	
		US- 6,290,046	09-18-2001	Menard et al.	
		US- 6,293,382	09-25-2001	Nishide et al.	
		US- 6,345,711	02-12-2002	Sullivan	
		US- 6,370,755	04-16-2002	Wakamori	
		US- 6,397,997	06-04-2002	Kato	
EC		US- 6,409,006	06-25-2002	Wakamori et al.	
		US- 6,439,363	08-27-2002	Nels	

FOREIGN PATENT DOCUMENTS

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Sheet 5 of

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Application Number	10/677,577
Filing Date	October 2, 2003
First Named Inventor	Jonathan M. Rich
Art Unit	
Examiner Name	
Attorney Docket Number	SEH 027 P2

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SD		US- 6,454,072	09-24-2002	Merkel et al.	
		US- 6,497,312	12-24-2002	Sasse et al.	
		US- 6,499,579	12-31-2002	Ono et al.	
		US- 6,557,685	05-06-2003	Hattori	
		US- 6,581,740	06-24-2003	Szalony	
SD		US- 6,601,684	08-05-03	Collis et al.	
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Sheet 6 of

Complete if Known	
Application Number	10/677,577
Filing Date	October 2, 2003
First Named Inventor	Jonathan M. Rich
Group Art Unit	
Examiner Name	
Attorney Docket Number	SEH 027 P2

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
SO		Select Powertrain Technologies. Design Review of Daimler Chrysler TCC Carbon Friction Facing. 19 Nov. 2001.	
SO		Select Powertrain Technologies Corp. Tremec – Select Open Issue. 2 Feb. 2002.	

Examiner Signature		Date Considered	3-30-05

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